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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,407	11/14/2003	. Robert J. Dunki-Jacobs	END-5005NP	9912
27777 7590 07/13/2007 PHILIP S. JOHNSON JOHNSON & JOHNSON			EXAMINER	
			ROZANSKI, MICHAEL T	
	N & JOHNSON PLAZ VICK, NJ 08933-7003		ART UNIT	PAPER NUMBER
	·		3768	
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			MAIL DATE	DELIVERY MODE
			07/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/713,407	DUNKI-JACOBS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Rozanski	3768				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 03 Au	ugust 2006					
	action is non-final					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Neterickines Orice (1 10-052) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, and 4-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kovacs et al (5,833,603) in view of Adair et al (US 6,750,037).

Kovacs et al disclose a system and method for detecting tissues comprising a capsule comprising a detector, a substance for associating with a target tissue where the substance is capable of being detected by the detector and a machine for verifying at least one of the detector and substance are suitable for use (col. 3, line 10 - col. 4, line 59; col. 6, lines 8-56). Kovacs et al further disclose the steps of verifying at least one component and concentration (amount of chemical or biochemical substance) of the physical properties of the tissue, cell, and biochemical components of region of interest. Although, Kovacs et al do not explicitly state that the detection substance is a monoclonal body, peptide, nanoparticle, mRNA and DNS corresponding to a generic

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monoclonal antibody, and liposome, these are inherent properties of biochemical composition of the tissues and cells (col. 6, lines 26-36). In addition, Kovacs et al disclose that the biosensor detects energy spectra via optical or photosensor, which is used along with dye to acquire optical radiation. Although Kovacs et al do not explicitly state use or radioisotopes, the dye solution with radiation optical acquisition is inherent that the dye solution must be radioactive or radioisotopes (col. 1, lines 56-65; col. 4, lines 34-44; col. 5, lines 5-26). Furthermore, Kovacs et al disclose the method above where the sensor is a spectrophotometer acquiring multiple images of data from a region of interest with predetermines spectrum, wavelengths, and position to detect optical spectrum, i.e. spatial response pattern (col. 1, line 66 - col. 2, line 11).

First, it is known in the art that cancer cells are known to have a higher affinity for certain positron-emitting radioactive substances. However, it is not specifically disclosed in Kovacs et all that the substance for associating with a target tissue has an affinity for a target cell type. In the same field of endeavor, Adair et all teach of a method of cancer screening including introducing a compound to a patient for cell uptake, wherein cancerous cells have a natural affinity for the compound. The compound has a first portion, which creates a fluorescent marker and a second portion in the form of a radioisotope which creates a radioactive marker in targeted cells (col. 18, lines 45-53). It would have been obvious to one skilled in the art at the time the invention was made to have incorporated teaching of Adair et all in order to enable specific binding to cancerous cells for improved diagnosis and treatment.

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4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Adair et al in view of Iddan et al (US 5,604,531) and Goldenberg (US 5,716,595).

Adair et al disclose a method of cancer screening including introducing a compound to a patient for cell uptake (i.e. binding to target cell type), wherein cancerous cells have a natural affinity for the compound. The compound has a first portion, which creates a fluorescent marker and a second portion in the form of a radioisotope which creates a radioactive marker in targeted cells (col. 18, lines 45-53). Adair et al disclose material bound to target cell, but do not specifically disclose a clearing agent. In the same field of endeavor, Goldenberg teaches of clearing agent for removing material not bound to the target cell type (col. 5, lines 1-8). It would have been obvious to one with ordinary skill in the art at the time the invention was made to incorporate teaching of Goldenberg in order to eliminate excess targeting material.

Adair et al also do not disclose a swallowable capsule or that the capsule material is coated to allow the capsule to goes through the gastro-intestinal (GI) tract. However, this deficiency is well known in the art where Iddan et al teaches a capsule detector where the device is swallowable and coated with material to allow the detector to pass through the GI tract. In addition, a reception system 12 is used with data processor 14 and position monitor 16 for tracking the position of the detector in the naturally occurring body lumen (col. 1, lines 34-40; col. 3, line 8 - col. 5, line 6). Therefore, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to apply Kovacs et al's teachings as described above with

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Iddan et al's device designed to be swallow through the GI tract to achieve the claimed invention.

5. Claims 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kovacs et al as in view of Adair et al and Iddan et al (US 5,604,531).

Kovacs et al disclose a system for detecting tissues comprising a capsule comprising a detector, a substance for associating with a target tissue where the substance is capable of being detected by the detector and a machine for verifying at least one of the detector and substance are suitable for use (col. 3, line 10 - col. 4, line 59; col. 6, lines 8-56). In addition, Kovacs et al disclose that the capsule includes multiple detectors, a radiation detector, magnetic detector, and single analyzer for each detector (col. 4, lines 35-44). Adair et al disclose a method of cancer screening including introducing a compound to a patient for cell uptake, wherein cancerous cells have a natural affinity for the compound. The compound has a first portion, which creates a fluorescent marker and a second portion in the form of a radioisotope which creates a radioactive marker in targeted cells (col. 18, lines 45-53). Although Kovacs et al disclose implantation of the sensor device, neither Kovacs et al nor Adair et al disclose that the capsule is a swallowable or that the capsule material is coated to allow the capsule to goes through the gastro-intestinal (GI) tract. However, this deficiency is well known in the art where Iddan et al teaches a similar capsule detector where the device is swallowable and coated with material to allow the detector to pass through the GI tract. In addition, a reception system 12 is used with data processor 14 and position

monitor 16 for tracking the position of the detector in the naturally occurring body lumen (col. 1, lines 34-40; col. 3, line 8 - col. 5, line 6). Therefore, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to apply Kovacs et al's teachings as described above with Iddan et al's device designed to be swallow through the GI tract to achieve the claimed invention.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Rozanski whose telephone number is 571-272-1648. The examiner can normally be reached on Monday - Friday, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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SUPERVISORY PATENT EXAMINER